

CLAIMS

WHAT IS CLAIMED IS:

1. A balloon display comprised of:
 - A. at least one framework with at least two apertures; and
 - B. at least two apertures of said at least one framework contain at least one inflatable chamber each,
said at least one inflatable chamber each being at least partially inflated,
and
said at least one inflatable chamber each being circumscribed by a portion
of the framework defining the aperture; and
 - C. at least two of said at least one inflatable chamber each are held in their
respective apertures of said at least one framework, at least in part, by at least one
mechanism selected from the following list:
 - (1) at least one neck, stem, tab, or protrusion of an inflatable chamber
is wrapped, tied, entangled, or otherwise secured directly to the framework;
 - (2) at least one neck, stem, tab, or protrusion of an inflatable chamber
is secured indirectly to the framework;
 - (3) at least one area of adhesive is in contact with both the framework
and the inflatable chamber;
 - (4) at least one area of adhesive is in contact with both the inflatable
chamber and a backing material for the adhesive,
and at least one area of adhesive on the backing material is in
contact with the framework;
 - (5) at least one area of adhesive is in contact with both the inflatable
chamber and a backing material for the adhesive,
and the backing material is wrapped, tied, entangled, or otherwise
secured directly to the framework;
 - (6) at least one area of adhesive is in contact with both the inflatable
chamber and a backing material for the adhesive,
and the backing material is connected indirectly to the framework;
 - (7) at least one set of material connects at least two inflatable
chambers which are contained in different apertures,
and this connecting material is restricted in its position by passing
through at least one small aperture in the framework between the larger
apertures which contain the inflatable chambers;
 - (8) at least one set of material connects at least two inflatable
chambers which are contained in different apertures,
and this connecting material is restricted in its position by passing
through at least one small aperture in the framework between the larger
apertures which contain the inflatable chambers,
and the material surrounding said at least one small aperture has a
break, gap, opening, gate, overlap or other access from the outside of said at

least one small aperture to the inside of said at least one small aperture without threading one end of said connecting material directly through said at least one small aperture;

(9) at least one set of material connects at least two inflatable chambers which are contained in different apertures,

and this connecting material is restricted in it's position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers,

and the material surrounding said at least one small aperture has a break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture to the inside of said at least one small aperture without threading one end of said connecting material directly through said at least one small aperture,

and said break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture automatically closes upon insertion of said connecting material sufficiently to maintain the restricted position of said connecting material under the stresses of normal use of the balloon display;

(10) said at least one inflatable chamber each is/are framed in multiple planes;

(11) at least one area of framework circumscribing said at least one inflatable chamber each is textured to increase friction with said at least one inflatable chamber each;

(12) at least one area of said at least one inflatable chamber each is textured to increase friction with said at least one framework;

(13) at least one area of framework circumscribing said at least one inflatable chamber each has ribs, bumps, protrusions, indentations, holes or other significant deviations from a generally even surface to increase the grip on said at least one inflatable chamber each;

(14) at least one area of said at least one inflatable chamber each has ribs, bumps, protrusions, indentations, holes or other significant deviations from a generally even surface to increase the grip on the framework circumscribing said at least one inflatable chamber each;

(15) said at least one framework has custom formed sections to match the form of said at least one inflatable chamber each;

(16) said at least one inflatable chamber each is/are custom formed to match the shape of the framework circumscribing said at least one inflatable chamber each;

(17) at least one area of framework circumscribing said at least one inflatable chamber each is made of elastic material which tightens the fit of the circumscribing framework upon said at least one inflatable chamber each;

(18) at least one area of the framework circumscribing said at least one inflatable chamber each incorporates at least one spring or other flexible device which presses directly or indirectly against said at least one inflatable chamber each;

(19) at least one area of framework circumscribing said at least one inflatable chamber each is made of resilient, compressible material which

tightens the fit of the framework against said at least one inflatable chamber each.

(20) at least one area between said at least one inflatable chamber each and the framework circumscribing said at least one inflatable chamber each is occupied by material which increases the hold between said at least one inflatable chamber each and the surrounding framework, at least in part, by at least one mechanism selected from the following list:

- a. surface texture that increases friction;
- b. adhesive coating;
- c. a form that matches to the form of adjacent materials;
- d. volume that increases pressure on adjacent materials;
- e. resilient, compressible character of material;
- f. material of a nature to increase static electric cling.

2. The balloon display as recited in claim 1 further comprising:

the pneumatic pressure of the at least partially inflated inflatable chamber against the surrounding framework as a mechanism helping to hold said at least one inflatable chamber each within their respective apertures.

3. The balloon display as recited in claim 1 wherein:

the plane of at least two of said at least two apertures containing said at least one inflatable chamber each are not the same as the plane of the overall framework/s.

4. The balloon display as recited in claim 1 wherein:

at least two of said at least two apertures containing said at least one inflatable chamber each are framed with materials which curve in more than one plane.

5. The balloon display as recited in claim 1 wherein:

said at least one framework with at least two apertures extends in more than one plane.

6. The balloon display as recited in claim 1 wherein:

said at least one framework with at least two apertures curves in more than one plane.

7. The balloon display as recited in claim 1 wherein:

the display is set to be viewed from angles not centered on a line perpendicular to the plane of the overall framework.

8. The balloon display as recited in claim 1 wherein:

the display is set to be viewed from angles not centered on a line perpendicular to the planes of the apertures.

9. The balloon display as recited in claim 1 wherein:

said at least one framework with at least two apertures is comprised of at least two layers with at least two apertures in each layer, and

at least two apertures in each of said at least two apertures in each layer, contain at least one inflatable chamber each,
said at least one inflatable chamber each being at least partially inflated, and
said at least one inflatable chamber each being circumscribed by a portion of the framework defining the aperture.

10. The balloon display as recited in claim 1 wherein:

- A. said at least one framework with at least two apertures is at least two frameworks with at least two apertures each; and
- B. at least two apertures in each of said at least two frameworks contain at least one inflatable chamber each,
said at least one inflatable chamber each being at least partially inflated,
and
said at least one inflatable chamber each being circumscribed by a portion of the framework defining the aperture; and
- C. at least one inflatable chamber in at least one of said at least two frameworks is connected to at least one inflatable chamber in another of said at least two frameworks.

11. The balloon display as recited in claim 1 wherein:

said framing material used to circumscribe said inflatable chambers is connected to other framing material used to circumscribe said inflatable chambers at least in part by hand without the necessity of tools or accessories by using at least one mechanism selected from the following list:

- (1) sections of framing material having notches, wrap around other sections of framing material having notches in such a way as to interlock;
- (2) sections of framing material having at least one bulbous piece each, connect with sections of framing material having at least one slit or slot each by the insertion of the bulbous piece through the slit or slot and then rotating said sections of framing material so that the bulbous piece will not, under the normal stresses of use, pull back through the slot;
- (3) sections of framing material having at least one slit, slot or hole each, connect with sections of framing material having at least one angular protrusion by the insertion of the protrusion through the slit, slot or hole in such a direction that the normal stresses of use tend to reinforce the placement of the protrusion;
- (4) sections of framing material having at least one slit, slot or hole each, connect with sections of framing material having at least one angular protrusion by the insertion of the protrusion through the slit, slot or hole and the presence of at least one tab, strip, bump or other physical obstruction to the removal of the protrusion from the hole;
- (5) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by wrapping the neck, stem, or other protrusion from an inflatable chamber around said overlapped sections;

(6) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by wrapping the neck, stem, or other protrusion from an inflatable chamber around the overlapped sections at the point of matching notches, bumps, or other irregularities in the two overlapped sections;

(7) sections of framing material overlap other sections of framing and the overlapped sections are held together, at least in part, by putting the neck, stem, or other protrusion from an inflatable chamber through matching holes, slits or other apertures in the two overlapping sections;

(8) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by inserting inflatable chambers in matching apertures in the overlapped section of framing material.

12. A balloon display comprised of:

- A. at least two layers of inflatable chambers with at least two inflatable chambers in each of said at least two layers; and
- B. said at least two inflatable chambers are at least partially inflated; and
- C. framing material circumscribes said at least two inflatable chambers in said at least two layers; and
- D. framing material that circumscribes at least one inflatable chamber in a given layer of said at least two layers is connected to framing material that circumscribes at least one other inflatable chamber in the same given layer; and
- E. said at least two layers of inflatable chambers are connected by at least one mechanism selected from the following list:

(1) framing material circumscribing inflatable chambers in one layer of said at least two layers is directly connected to framing material circumscribing inflatable chambers in at least one other layer of said at least two layers;

(2) framing material circumscribing inflatable chambers in one layer of said at least two layers is indirectly connected to framing material circumscribing inflatable chambers in at least one other layer of said at least two layers;

(3) inflatable chambers in one layer of said at least two layers are made of continuous material with inflatable chambers in at least one other layer of said at least two layers;

(4) inflatable chambers in one layer of said at least two layers are directly connected to inflatable chambers in at least one other layer of said at least two layers;

(5) inflatable chambers in one layer of said at least two layers are indirectly connected to inflatable chambers in at least one other layer of said at least two layers.

13. The balloon display as recited in claim 12 wherein:

said at least two inflatable chambers are held in their respective circumscribing framing materials, at least in part, by at least one mechanism selected from the following list:

(1) at least one neck, stem, tab, or protrusion of an inflatable chamber is wrapped, tied, entangled, or otherwise secured directly to the framework;

(2) at least one neck, stem, tab, or protrusion of an inflatable chamber is secured indirectly to the framework;

(3) at least one area of adhesive is in contact with both the framework and the inflatable chamber;

(4) at least one area of adhesive is in contact with both the inflatable chamber and a backing material for the adhesive,
and at least one area of adhesive on the backing material is in contact with the framework;

(5) at least one area of adhesive is in contact with both the inflatable chamber and a backing material for the adhesive,
and the backing material is wrapped, tied, entangled, or otherwise secured directly to the framework;

(6) at least one area of adhesive is in contact with both the inflatable chamber and a backing material for the adhesive,
and the backing material is connected indirectly to the framework;

(7) at least one set of material connects at least two inflatable chambers which are contained in different apertures,
and this connecting material is restricted in it's position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers;

(8) at least one set of material connects at least two inflatable chambers which are contained in different apertures,
and this connecting material is restricted in it's position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers,
and the material surrounding said at least one small aperture has a break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture to the inside of said at least one small aperture without threading one end of said connecting material directly through said at least one small aperture;

(9) at least one set of material connects at least two inflatable chambers which are contained in different apertures,
and this connecting material is restricted in it's position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers,
and the material surrounding said at least one small aperture has a break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture to the inside of said at least one small aperture without threading one end of said connecting material directly through said at least one small aperture,
And said break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture automatically closes upon insertion of said connecting material sufficiently to maintain the restricted position of said connecting material under the stresses of normal use of the balloon display;

(10) said at least one inflatable chamber each is/are framed in multiple planes;

(11) at least one area of framework circumscribing said at least one inflatable chamber each is textured to increase friction with said at least one inflatable chamber each;

(12) at least one area of said at least one inflatable chamber each is textured to increase friction with said at least one framework;

(13) at least one area of framework circumscribing said at least one inflatable chamber each has ribs, bumps, protrusions, indentations, holes or other significant deviations from a generally even surface to increase the grip on said at least one inflatable chamber each;

(14) at least one area of said at least one inflatable chamber each has ribs, bumps, protrusions, indentations, holes or other significant deviations from a generally even surface to increase the grip on the framework circumscribing said at least one inflatable chamber each;

(15) said at least one framework has custom formed sections to match the form of said at least one inflatable chamber each;

(16) said at least one inflatable chamber each is/are custom formed to match the shape of the framework circumscribing said at least one inflatable chamber each;

(17) at least one area of framework circumscribing said at least one inflatable chamber each is made of elastic material which tightens the fit of the circumscribing framework upon said at least one inflatable chamber each;

(18) at least one area of the framework circumscribing said at least one inflatable chamber each incorporates at least one spring or other flexible device which presses directly or indirectly against said at least one inflatable chamber each;

(19) at least one area of framework circumscribing said at least one inflatable chamber each is made of resilient, compressible material which tightens the fit of the framework against said at least one inflatable chamber each.

(20) at least one area between said at least one inflatable chamber each and the framework circumscribing said at least one inflatable chamber each is occupied by material which increases the hold between said at least one inflatable chamber each and the surrounding framework, at least in part, by at least one mechanism selected from the following list:

- surface texture that increases friction;
- adhesive coating;
- a form that matches to the form of adjacent materials;
- volume that increases pressure on adjacent materials;
- resilient, compressible character of material;
- material of a nature to increase static electric cling.

(21) pneumatic pressure of the at least partially inflated inflatable chamber against the circumscribing framing material.

14. A balloon display as recited in claim 12 wherein:

~~said framing material used to circumscribe said inflatable chambers is connected to other framing material used to circumscribe said inflatable chambers at least in part by hand without the necessity of tools or accessories by using at least one mechanism selected from the following list:~~

- ~~(1) sections of framing material having notches, wrap around other sections of framing material having notches in such a way as to interlock;~~
- ~~(2) sections of framing material having at least one bulbous piece each, connect with sections of framing material having at least one slit or slot each by the insertion of the bulbous piece through the slit or slot and then rotating said sections of framing material so that the bulbous piece will not, under the normal stresses of use, pull back through the slot;~~
- ~~(3) sections of framing material having at least one slit, slot or hole each, connect with sections of framing material having at least one angular protrusion by the insertion of the protrusion through the slit, slot or hole in such a direction that the normal stresses of use tend to reinforce the placement of the protrusion;~~
- ~~(4) sections of framing material having at least one slit, slot or hole each, connect with sections of framing material having at least one angular protrusion by the insertion of the protrusion through the slit, slot or hole and the presence of at least one tab, strip, bump or other physical obstruction to the removal of the protrusion from the hole;~~
- ~~(5) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by wrapping the neck, stem, or other protrusion from an inflatable chamber around said overlapped sections;~~
- ~~(6) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by wrapping the neck, stem, or other protrusion from an inflatable chamber around the overlapped sections at the point of matching notches, bumps, or other irregularities in the two overlapped sections;~~
- ~~(7) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by putting the neck, stem, or other protrusion from an inflatable chamber through matching holes, slits or other apertures in the two overlapping sections;~~
- ~~(8) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by inserting inflatable chambers in matching apertures in the overlapped section of framing material.~~

15. A balloon display comprised of:

- A. at least two frameworks with at least two apertures each; and
- B. at least two apertures of said at least two frameworks contain at least one inflatable chamber each; and
- C. said at least one inflatable chamber each is at least partially inflated; and

D. said at least one inflatable chamber each is circumscribed by a portion of the framework defining the aperture containing said at least one inflatable chamber each; and

E. said at least two frameworks are connected by inflatable chambers which extend from within apertures in one of said at least two frameworks into the apertures of at least one other of said at least two frameworks.

16. A balloon display as recited in claim 15 wherein:

said framing material used to circumscribe said inflatable chambers is connected to other framing material used to circumscribe said inflatable chambers at least in part by hand without the necessity of tools or accessories by using at least one mechanism selected from the following list:

(1) sections of framing material having notches, wrap around other sections of framing material having notches in such a way as to interlock;

(2) sections of framing material having at least one bulbous piece each, connect with sections of framing material having at least one slit or slot each by the insertion of the bulbous piece through the slit or slot and then rotating said sections of framing material so that the bulbous piece will not, under the normal stresses of use, pull back through the slot;

(3) sections of framing material having at least one slit, slot or hole each, connect with sections of framing material having at least one angular protrusion by the insertion of the protrusion through the slit, slot or hole in such a direction that the normal stresses of use tend to reinforce the placement of the protrusion;

(4) sections of framing material having at least one slit, slot or hole each, connect with sections of framing material having at least one angular protrusion by the insertion of the protrusion through the slit, slot or hole and the presence of at least one tab, strip, bump or other physical obstruction to the removal of the protrusion from the hole;

(5) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by wrapping the neck, stem, or other protrusion from an inflatable chamber around said overlapped sections;

(6) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by wrapping the neck, stem, or other protrusion from an inflatable chamber around the overlapped sections at the point of matching notches, bumps, or other irregularities in the two overlapped sections;

(7) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by putting the neck, stem, or other protrusion from an inflatable chamber through matching holes, slits or other apertures in the two overlapping sections;

(8) sections of framing material overlap other sections of framing material and the overlapped sections are held together, at least in part, by

inserting inflatable chambers in matching apertures in the overlapped sections of framing material.

17. The balloon display as recited in claim 15 wherein:

said at least two inflatable chambers are held in their respective circumscribing framing materials, at least in part, by at least one mechanism selected from the following list:

- (1) at least one neck, stem, tab, or protrusion of an inflatable chamber is wrapped, tied, entangled, or otherwise secured directly to the framework;
- (2) at least one neck, stem, tab, or protrusion of an inflatable chamber is secured indirectly to the framework;
- (3) at least one area of adhesive is in contact with both the framework and the inflatable chamber;
- (4) at least one area of adhesive is in contact with both the inflatable chamber and a backing material for the adhesive,
and at least one area of adhesive on the backing material is in contact with the framework;
- (5) at least one area of adhesive is in contact with both the inflatable chamber and a backing material for the adhesive,
and the backing material is wrapped, tied, entangled, or otherwise secured directly to the framework;
- (6) at least one area of adhesive is in contact with both the inflatable chamber and a backing material for the adhesive,
and the backing material is connected indirectly to the framework;
- (7) at least one set of material connects at least two inflatable chambers which are contained in different apertures,
and this connecting material is restricted in its position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers;
- (8) at least one set of material connects at least two inflatable chambers which are contained in different apertures,
and this connecting material is restricted in its position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers,
and the material surrounding said at least one small aperture has a break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture to the inside of said at least one small aperture without threading one end of said connecting material directly through said at least one small aperture;
- (9) at least one set of material connects at least two inflatable chambers which are contained in different apertures,
and this connecting material is restricted in its position by passing through at least one small aperture in the framework between the larger apertures which contain the inflatable chambers,
and the material surrounding said at least one small aperture has a break, gap, opening, gate, overlap or other access from the outside of said at

~~at least one small aperture to the inside of said at least one small aperture without threading one end of said connecting material directly through said at least one small aperture,~~

~~And said break, gap, opening, gate, overlap or other access from the outside of said at least one small aperture automatically closes upon insertion of said connecting material sufficiently to maintain the restricted position of said connecting material under the stresses of normal use of the balloon display;~~

~~(10) said at least one inflatable chamber each is/are framed in multiple planes;~~

~~(11) at least one area of framework circumscribing said at least one inflatable chamber each is textured to increase friction with said at least one inflatable chamber each;~~

~~(12) at least one area of said at least one inflatable chamber each is textured to increase friction with said at least one framework;~~

~~(13) at least one area of framework circumscribing said at least one inflatable chamber each has ribs, bumps, protrusions, indentations, holes or other significant deviations from a generally even surface to increase the grip on said at least one inflatable chamber each;~~

~~(14) at least one area of said at least one inflatable chamber each has ribs, bumps, protrusions, indentations, holes or other significant deviations from a generally even surface to increase the grip on the framework circumscribing said at least one inflatable chamber each;~~

~~(15) said at least one framework has custom formed sections to match the form of said at least one inflatable chamber each;~~

~~(16) said at least one inflatable chamber each is/are custom formed to match the shape of the framework circumscribing said at least one inflatable chamber each;~~

~~(17) at least one area of framework circumscribing said at least one inflatable chamber each is made of elastic material which tightens the fit of the circumscribing framework upon said at least one inflatable chamber each;~~

~~(18) at least one area of the framework circumscribing said at least one inflatable chamber each incorporates at least one spring or other flexible device which presses directly or indirectly against said at least one inflatable chamber each;~~

~~(19) at least one area of framework circumscribing said at least one inflatable chamber each is made of resilient, compressible material which tightens the fit of the framework against said at least one inflatable chamber each.~~

~~(20) at least one area between said at least one inflatable chamber each and the framework circumscribing said at least one inflatable chamber each is occupied by material which increases the hold between said at least one inflatable chamber each and the surrounding framework, at least in part, by at least one mechanism selected from the following list:~~

- ~~a. surface texture that increases friction;~~
- ~~b. adhesive coating;~~
- ~~c. a form that matches to the form of adjacent materials;~~

- d. volume that increases pressure on adjacent materials;
- e. resilient, compressible character of material;
- f. material of a nature to increase static electric cling.

(21) pneumatic pressure of the at least partially inflated inflatable chamber against the circumscribing framing material.

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